In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please cancel claim 48 as follows.

1. **(Previously presented)** A method of preparing an alpha-sulfonyl hydroxamic acid derivative of formula I:

$$XO$$
 N
 R_1
 R_2
 I

or a pharmaceutically acceptable salt thereof; wherein:

X is hydrogen, alkyl of 1-6 carbon atoms, benzyl, hydroxyethyl, t-butyldimethylsilyl, trimethylsilyl or tetrahydropyranyl;

Y is hydrogen, alkyl of 1-6 carbon atoms, aryl of 6 to 10 carbon atoms, 5-10 membered heteroaryl having 1-3 heteroatoms selected from N, NR₄, O and S, cycloalkyl of 3-6 carbon atoms, 5-10 membered cycloheteroalkyl; wherein said alkyl, aryl, heteroaryl, cycloalkyl and cycloheteroalkyl group of Y is optionally substituted on any atom capable of substitution, with 1 to 3 substituents selected from the group consisting of halogen, alkyl of 1-6 carbon atoms, alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, -OR₅, =O, -CN, -COR₅, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, - CONR₅R₆,-S(O)_nR₅, -OPO(OR₅)OR₆, -PO(OR₅)R₆, -OC(O)OR₅, -OR₅NR₅R₆, -OC(O)NR₅R₆, -COOR₅, -SO₃H, -NR₅R₆, -N[(CH₂)₂]₂NR₅, -NR₅COR₆, -NR₅COOR₆, SO₂NR₅R₆, -NO₂, -N(R₅)SO₂R₆, -NR₅CONR₅R₆, -NR₅C(=NR₆)NR₅R₆, -NR₅C(=NR₆)N(SO₂R₅)R₆, -NR₅C(=NR₆)N(SO₂R₅)R₆, -NR₅C(=NR₆)NR₆, -NR₅C(=NR₆)NR₆, -NR₅C(=NR₆)NR₆, -NR₅C(=NR₆)NR₆, phenyl, heteroaryl and 5-10 membered cycloheteroalkyl;

 R_1 and R_2 taken together with the carbon atom to which they are attached form a cycloalkyl ring of 3-8 carbon atoms or a 5-10 membered cycloheteroalkyl ring containing 1-3 heteroatoms selected from the group consisting of N, NR₄, O and S; and the cycloheteroalkyl may be optionally substituted on any atom capable of substitution with from 1 to 3 substituents selected from halogen, alkyl of 1-6 carbon atoms, alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, $-OR_{5}=O$, -CN, $-COR_{5}$, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbons atoms, $-CONR_2R_{6}$, $-S(O)_nR_{5}$, $-OPO(OR_5)OR_{6}$, $-PO(OR_5)R_{6}$, $-OC(O)OR_5$, $-OR_5NR_5R_{6}$, $-OC(O)NR_5R_{6}$, $-COOR_5$, $-SO_3H$, $-NR_5COR_6$, -N

the 5-10 membered cycloheteroalkyl ring formed by R_1 and R_2 together with the carbon atom to which they are attached is

wherein each instance of K is, independently, O, S or NR₄;

 R_3 is alkyl of 1-18 carbon atoms, alkenyl of 2-18 carbon atoms having 1 to 3 double bonds, alkynyl of 2-18 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, 5-10 membered cycloheteroalkyl, aryl of 6 to 10 carbon atoms, 5-6 membered heteroaryl having 1-3 heteroatoms selected from N, NR₄, O, and S; wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl of R_3 may optionally be substituted on any atom cable of substitution with from 1 to 3 substituents selected from

halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, $-OR_{5}$, =O, -CN, $-COR_{5}$, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, $-CONR_{5}R_{6}$, $-S(O)_{n}R_{5}$, $-OPO(OR_{5})OR_{6}$, $-PO(OR_{5})R_{6}$, $-OC(O)OR_{5}$, $-OR_{5}NR_{5}R_{6}$, $-OC(O)OR_{5}$, $-OR_{5}NR_{5}R_{6}$, $-OC(O)NR_{5}R_{6}$, $-OC(O)NR_{5}R$

R₄ is hydrogen, aryl, aralkyl, alkyl of 1-6 carbon atoms, cycloalkyl of 3-6 carbon atoms, -C(O)_nR₅, -CONR₅R₆, or SO₂R₅; wherein each of said aryl, aralkyl, alkyl, or cycloalkyl is optionally substituted on any atom cable of substitution with from 1 to 3 substituents each independently selected from halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, -OR₅ =O, -CN, -COR₅ perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, -CONR₅R₆ -S(O)₀R₅ -OPO(OR₅)OR₆ - $PO(OR_5)R_6 - OC(O)OR_5 - OR_5NR_5R_6 - OC(O)NR_5R_6 - C(O)NR_5OR_6 - COOR_5 - SO_3H_7 - NR_5R_6 - COOR_5 - SO_5R_6 - SO_5R_6$ NI(CH2)2PNR5 -NR5COR6 -NR5COOR6 SO2NR5R6 -NO2 -N(R5)SO2R6 -NR5CONR5R6 - $NR_5C(=NR_6)NR_5R_6$ - $NR_5C(=NR_6)N(SO_2R_5)R_6$ - $NR_5C(=NR_6)N(C=OR_5)R_6$, -tetrazol-5-yl, SO₂NHCN, -SO₂NHCONR₅R₆, phenyl, pyrrolyl, furanyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, triazolyl, pyrazolyl, imidazolyl, isothiazolyl, thiazolyl, isoxazolyl, oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, and pyrrolidinyl;

R₅ and R₆ are each independently hydrogen; aryl; 4-8 membered heteroaryl having 1-3 heteroatoms selected from N, NR₂₁, O and S; cycloalkyl of 3-6 carbon atoms; 5-10 membered cycloheteroalkyl; alkyl of 1-18 carbon atoms; alkenyl of 2-18 carbon atoms or alkynyl of 2-18 carbon atoms; wherein each of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloheteroalkyl, aryl, and heteroaryl is optionally substituted on any atom cable of substitution with from 1 to 3 substituents each independently selected from halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, =O, -CN,

perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, -tetrazol-5-yl, SO_2NHCN , phenyl, pyrrolyl, furanyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, triazolyl, pyrazolyl, imidazolyl, isothiazolyl, thiazolyl, isoxazolyl, oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, and pyrrolidinyl; each of the 4-8 membered heteroaryl in R_5 or R_6 is, independently,

each of the 5-10 membered cycloheteroalkyl ring in R₅ or R₆ is, independently,

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or R_5 and R_6 taken together with the nitrogen atom to which they are attached may form a 5-10 membered cycloheteroalkyl ring, wherein the 5-10 membered cycloheteroalkyl ring is

each instance of K^1 is, independently, O, S, or NR_{21} ;

each instance of R_{21} is, independently, hydrogen, aryl, aralkyl, heteroaryl, heteroaralkyl, alkyl of 1-6 carbon atoms, cycloalkyl of 3-6 carbon atoms, $-C(O)_nR_{22}$, $-CONR_{22}R_{23}$, or SO_2R_{23} ;

R₂₂ and R₂₃ are each independently hydrogen, aryl, pyrrolyl, furanyl, thiophenyl, pyridinyl, pyridinyl, pyridazinyl, pyrazinyl, triazolyl, pyrazolyl, imidazolyl, isothiazolyl, thiazolyl, isoxazolyl, oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, pyrrolidinyl, cycloalkyl of 3-6 carbon atoms, alkyl of 1-18 carbon atoms; alkenyl of 2-18 carbon atoms;

or R_{22} and R_{23} taken together with the nitrogen atom to which they are attached may form pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, oxazolidinyl, thiazolidinyl, pyrazolidinyl, piperazinyl, or azetidinyl; and n is 1 or 2; comprising:

(a) reacting a sulfonyl fluoride of formula III:

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wherein R_3 is as hereinabove defined for R_3 with the proviso that R_3 does not contain a group that can form an anion under basic conditions; with a carbonyl compound of formula IV:

$$Z$$
 R_1
 R_2
 R_2

wherein Z is H, OH, YNOX, -NR₅R₆ or OR₅, and X, Y, R₁, R₂, R₅, and R₆ are as hereinabove defined; in the presence of a metal hydride or amide base in an ether organic solvent at a temperature of from about -78 $^{\circ}$ C to about 30 $^{\circ}$ C to produce an alpha-sulfonyl carbonyl compound of formula V:

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$$Z$$
 R_1
 R_2
 R_2

wherein Z is H, OH, -NYOX, -OR₅ or -NR₅R₆; and

b) converting a compound of formula V to a compund of formula I:

$$XO$$
 P
 SO_2R_3
 R_1
 R_2

wherein X, Y, R₁, R₂, and R₃ are as hereinabove defined.

- 2. (Previously presented) The method of claim 1 wherein Z is H, OH, $-NR_5R_6$ or OR_5 .
- 3. **(Previously presented)** The method of Claim 2 wherein Z in the compound of formula V is:
- (i) OR_5 wherein R_5 is other than hydrogen and the conversion to the alphasulfonyl hydroxamic acid derivative of the formula I is carried out by:
 - a) reacting the compound of formula V with an alkali metal hydroxide in the presence of water, and/or ether organic solvent or alcohol at a temperature of from about 0 °C to about 100 °C to produce a carboxylic acid of the formula VI:

$$SO_2R_3$$
 R_1
 R_2

wherein, R₁, R₂, and R₃ are as hereinabove defined; and

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b) reacting the carboxylic acid of formula VI with a hydroxylamine or hydroxylamine derivative of the formula VII:

XONHY

VII

wherein X and Y are as hereinabove defined; in the presence of suitable coupling reagent and polar organic solvent to produce a hydroxamate of the formula I or

- (ii) OH and the conversion to the alpha-sulfonyl hydroxamic acid derivative of the formula I is carried out according to step b) above.
- 4. **(Previously presented)** The method of Claim 3 wherein the ether organic solvent in step a) is selected from the group consisting of tetrahydrofuran, diethylether and dioxane.
- 5. **(Previously presented)** The method of Claim 3 wherein the alcohol in step a) is selected from the group consisting of methanol and ethanol
- 6. **(Previously presented)** The method of Claim 3 wherein the alkali metal hydroxide in step a) is selected from the group consisting of lithium hydroxide and sodium hydroxide.
- 7. **(Original)** The method of Claim 3 wherein the polar organic solvent in step b) is dimethylformamide.
- 8. **(Previously presented)** The method of Claim 3 wherein the coupling reagent is selected from the group consisting of 1-(3-dimethylaminopropyl)-3-ethylcarbodimide hydrochloride, N-hydroxybenzotriazole, N-methylmorpholine oxalylchloride and triethylamine.
- 9. (Original) The method of Claim 3 wherein the coupling reaction is carried out at a temperature from about 0° to 30° .

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10. **(Previously presented)** The method of Claim 3 wherein the ether organic solvent used in the reaction between the compounds of formula III and IV is selected from the group consisting of tetrahydrofuran, diethylether and dioxane.

- 11. **(Previously presented)** The method of Claim 3 wherein the metal hydride base or amide base used in the reaction between the compounds of formula III and IV is selected from the group consisting of lithium diisopropylamide, lithiumhexamethyldisilazide, and sodium hydride.
- 12. **(Previously presented)** The method of Claim 1 wherein the sulfonyl fluoride of formula III is prepared by reacting a sulfonyl chloride of the formula II:

R₃'SO₂CI

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wherein R₃' is as defined for R₃ in claim 1 with the proviso that R₃' does not contain a group that can form an anion under basic conditions, with a fluorinating agent in the presence of a polar organic solvent from about 15 ℃ to about 30 ℃.

- 13. **(Previously presented)** The method of Claim 12 wherein the fluorinating agent is selected from the group consisting of potassium fluoride, potassium fluoride-calcium fluoride mixture and cesium fluoride.
- 14. **(Previously presented)** The method of Claim 12 wherein the polar organic solvent is selected from the group consisting of acetonitrile and tetrahydrofuran.

15-28. (Canceled).

- 29. (Previously presented) The method of Claim 1 wherein X is H or alkyl of 1-6 carbon atoms.
- 30. (Original) The method of Claim 1 wherein Y is H.
- 31. (Original) The method of Claim 1 where Z is OH or OR_5 where R_5 is C_1 - C_6 alkyl.

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- 32. (Canceled).
- 33. **(Previously presented)** The method of Claim 1 wherein the cycloheteroalkyl ring is saturated.
- 34. **(Previously presented)** The method of Claim 1 wherein the cycloheteroalkyl ring has 6 atoms.
- 35. **(Previously presented)** The method of Claim 1 wherein the heteroatom is NR_4 and R_4 is hydrogen, trifluoromethylsulfonyl, optionally substituted aralkyl of 7-10 carbon atoms, $(C_6.C_{10}-aryl)$ carbonyl-, cycloheteroalkyl-carbonyl or heteroaryl-carbonyl.
- 36. (Original) The method of Claim 1 wherein R_3 is an optionally substituted C_6 - C_{10} aryl group.
- 37. (Original) The method of Claim 1 wherein R_3 is a phenyl group substituted by one or more OR_5 groups.
- 38. (Original) The method of Claim 1 wherein R_5 is C_{1-} C_6 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl or halophenyl.
- 39. **(Previously presented)** The method of Claim 1 in which the compound prepared is an alpha-sulfonyl hydroxamic acid derivative of the general formula IA:

$$SO_2R_3$$
 R_4
IA

wherein

X is hydrogen, or alkyl of 1-6 carbon atoms; and Y, R₃ and R₄ are as defined in Claim 1 or a pharmaceutically acceptable salt thereof.

40-44. (Canceled).

45. (Previously presented) A compound of Formula IX

$$XO$$
 N
 SO_2R_3
 NR_4
 IX

wherein

X is hydrogen, or alkyl of 1-6 carbon atoms;

Y is hydrogen, alkyl of 1-6 carbon atoms, aryl of 6 to 10 carbon atoms, 5-10 membered heteroaryl having 1-3 heteroatoms selected from N, NR₄, O and S, cycloalkyl of 3-6 carbon atoms, 5-10 membered cycloheteroalkyl; wherein said alkyl, aryl, heteroaryl, cycloalkyl and cycloheteroalkyl group of Y is optionally substituted on any atom capable of substitution, with 1 to 3 substituents selected from the group consisting of halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds; alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, $-OR_5$, =O, $-OR_5$, =O, -O, $-OR_5$, =O, -O, -O,

CN, -COR $_5$, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, - CONR $_5$ R $_6$, -S(O) $_n$ R $_5$, -OPO(OR $_5$)OR $_6$, -PO(OR $_5$)R $_6$, -OC(O)OR $_5$, -OR $_5$ NR $_5$ R $_6$, -OC(O)NR $_5$ OR $_6$, -COOR $_5$, -SO $_3$ H, -NR $_5$ R $_6$, -N[(CH $_2$) $_2$] $_2$ NR $_5$, -NR $_5$ COR $_6$, -NR $_5$ COOR $_6$, SO $_2$ NR $_5$ R $_6$, -NO $_2$, -N(R $_5$)SO $_2$ R $_6$, -NR $_5$ CONR $_5$ R $_6$, -NR $_5$ C(=NR $_6$)NR $_5$ R $_6$, -NR $_5$ C(=NR $_6$)N(SO $_2$ R $_5$)R $_6$, -NR $_5$ C(=NR $_6$)N(C=OR $_5$)R $_6$, -tetrazol-5-yl, -SO $_2$ NHCN, -SO $_2$ NHCONR $_5$ R $_6$, phenyl, heteroaryl and 5-10 membered cycloheteroalkyl;

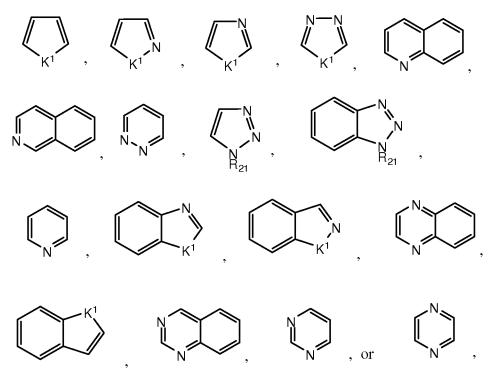
 R_3 is alkyl of 1-18 carbon atoms, alkenyl of 2-18 carbon atoms having 1 to 3 double bonds, alkynyl of 2-18 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, 5-10 membered cycloheteroalkyl, aryl of 6 to 10 carbon atoms, 5-6 membered heteroaryl having 1-3 heteroatoms selected from N, NR₄, O, and S; wherein said alkyl, alkenyl, alkynyl, cycloalkyl, cycloheteroalkyl, aryl and heteroaryl of R_3 may optionally be substituted on any atom capable of substitution with from 1 to 3 substituents selected from halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds; alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, $-OR_5$, -O, -CN, $-COR_5$, perfluoroalkyl of 1-4 carbon atoms, -O-perfluororalkyl of 1-4 carbon atoms, $-OO(O)OR_5R_6$, $-S(O)_nR_5$, $-OPO(OR_5)OR_6$, $-PO(OR_5)R_6$, $-OC(O)OR_5$, $-OR_5NR_5R_6$, $-OC(O)OR_5$, $-OR_5NR_5R_6$, $-NR_5COR_6$, -NR

 R_4 is hydrogen, aryl, aralkyl, alkyl of 1-6 carbon atoms, cycloalkyl of 3-6 carbon atoms, $-C(O)_nR_5$, $-CONR_5R_6$, or SO_2R_5 ; wherein each of said aryl, aralkyl, alkyl, or cycloalkyl is optionally substituted on any atom cable of substitution with from 1 to 3 substituents each independently selected from halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, $-OR_5$, =O, -CN, $-COR_5$, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, $-CONR_5R_6$, $-S(O)_nR_5$, $-OPO(OR_5)OR_6$, $-PO(OR_5)R_6$, $-OC(O)OR_5$, $-OR_5NR_5R_6$, $-OC(O)NR_5R_6$, $-COOR_5$, $-SO_3H$, $-NR_5R_6$, $-NR_5COR_6$,

oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, and pyrrolidinyl;

 R_5 and R_6 are each independently hydrogen; aryl; 4-8 membered heteroaryl having 1-3 heteroatoms selected from N, NR₂₁, O and S; cycloalkyl of 3-6 carbon atoms; 5-10 membered cycloheteroalkyl; alkyl of 1-18 carbon atoms; alkenyl of 2-18 carbon atoms or alkynyl of 2-18 carbon atoms; wherein each of said alkyl, alkenyl, alkynyl, cycloalkyl, cycloheteroalkyl, aryl, and heteroaryl is optionally substituted on any atom cable of substitution with from 1 to 3 substituents each independently selected from halogen, alkyl of 1-6 carbon atoms; alkenyl of 2-6 carbon atoms having from 1 to 3 double bonds, alkynyl of 2-6 carbon atoms having from 1 to 3 triple bonds, cycloalkyl of 3-6 carbon atoms, =O, -CN, perfluoroalkyl of 1-4 carbon atoms, -O-perfluoroalkyl of 1-4 carbon atoms, -tetrazol-5-yl, SO_2NHCN , phenyl, pyrrolyl, furanyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, triazolyl, pyrazolyl, imidazolyl, isothiazolyl, thiazolyl, isoxazolyl, oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, and pyrrolidinyl; each of the 4-8 membered heteroaryl in R_5 or R_6 is, independently,

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each of the 5-10 membered cycloheteroalkyl ring in R_5 or R_6 is, independently,

or R_5 and R_6 taken together with the nitrogen atom to which they are attached may form a 5-10 membered cycloheteroalkyl ring, wherein the 5-10 membered cycloheteroalkyl ring is

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each instance of K¹ is, independently, O, S, or NR₂₁;

each instance of R_{21} is, independently, hydrogen, aryl, aralkyl, heteroaryl, heteroaralkyl, alkyl of 1-6 carbon atoms, cycloalkyl of 3-6 carbon atoms, $-C(O)_nR_{22}$, $-CONR_{22}R_{23}$, or SO_2R_{23} ;

R₂₂ and R₂₃ are each independently hydrogen, aryl, pyrrolyl, furanyl, thiophenyl, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, triazolyl, pyrazolyl, imidazolyl, isothiazolyl, thiazolyl, isoxazolyl, oxazolyl, indolyl, isoindolyl, benzofuranyl, benzothiophenyl, quinolinyl, isoquinolinyl, quinoxalinyl, quinazolinyl, benzotriazolyl, indazolyl, benzimidazolyl, benzothiazolyl, benzisoxazolyl, benzoxazolyl, piperidinyl, piperazinyl, morpholinyl, tetrahydropyranyl, tetrahydrofuranyl, pyrrolidinyl, cycloalkyl of 3-6 carbon atoms, alkyl of 1-18 carbon atoms; alkenyl of 2-18 carbon atoms, or alkynyl of 2-18 carbon atoms;

or R₂₂ and R₂₃ taken together with the nitrogen atom to which they are attached may form pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, oxazolidinyl, thiazolidinyl, pyrazolidinyl, piperazinyl, or azetidinyl; and

n is 1 or 2; or an optical isomer thereof or a pharmaceutically acceptable salt thereof.

46. **(Previously presented)** The compound according to Claim 45 which is 1-benzyl-3-(4-methoxy-benzenesulfonyl)piperidine-3-carboxylic acid hydroxamide.

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47. **(Previously presented)** A pharmaceutical composition comprising a compound of claim 45 or the compound of claim 46 or a pharmaceutically acceptable salt thereof; and a pharmaceutically acceptable carrier.

48-52. (Canceled).

53. (Previously presented) The method according to claim 38 wherein R_5 is C_1 - C_6 alkyl substituted by C_2 - C_6 alkynyl.